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APPLICATION NO.	F.	ILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/743,104	10/743,104 12/23/2003		Mitsuhiko Ogihara	MAE 305	8001
23995	7590	08/28/2006		EXAMINER	
RABIN & Berdo, PC				MONDT, JOHANNES P	
SUITE 500 WASHINGTON, DC 20005				ART UNIT	PAPER NUMBER
				3663	
			DATE MAILED: 09/29/2006		

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary Examiner Johannes P. Mo The MAILING DATE of this communication appears on the cove Period for Reply A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EX WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS C Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, how after SIX (6) MONTHS from the mailing date of this communication.	o. Applicant(s)						
Office Action Summary Examiner Johannes P. Mo The MAILING DATE of this communication appears on the cove Period for Reply A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EX WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS C Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, how	OGIHARA ET AL.						
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- If NO period for reply is specified above, the maximum statutory period will apply and will expir. - Failure to reply within the set or extended period for reply will, by statute, cause the application Any reply received by the Office later than three months after the mailing date of this communication patent term adjustment. See 37 CFR 1.704(b).	OMMUNICATION. wever, may a reply be timely filed e SIX (6) MONTHS from the mailing date of this communication. to become ABANDONED (35 U.S.C. § 133).						
Status							
3) Since this application is in condition for allowance except for for	<u>_</u>						
Disposition of Claims							
4) ☐ Claim(s) <u>2-6,9,10,16-20,26-32,35 and 36</u> is/are pending in the 4a) Of the above claim(s) is/are withdrawn from conside 5) ☐ Claim(s) is/are allowed. 6) ☐ Claim(s) is/are rejected. 7) ☐ Claim(s) is/are objected to. 8) ☐ Claim(s) <u>2-6, 9-10, 16-20, 26-32, 35 and 36</u> are subject to rest	eration.						
Application Papers							
9) The specification is objected to by the Examiner. 10) The drawing(s) filed on is/are: a) accepted or b) older of the drawing(s) be held explacement drawing sheet(s) including the correction is required if the theorem of the oath or declaration is objected to by the Examiner. Note that	d in abeyance. See 37 CFR 1.85(a). he drawing(s) is objected to. See 37 CFR 1.121(d).						
Priority under 35 U.S.C. § 119							
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 							
2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) 5)	Interview Summary (PTO-413) Paper No(s)/Mail Date Notice of Informal Patent Application (PTO-152) Other:						

DETAILED ACTION

Response to Amendment

Amendment filed 6/13/06 forms the basis for this office action. Applicant substantially amended all claims through at least substantial amendments to independent claims 5 and 26, which now are drawn to different and patentably distinct species, and furthermore added new claims 35 and 36. In view of the amendment applicant the following Election-of-Species requirement is issued.

Election/Restrictions

- 1. Applicant is further required under 35 U.S.C. 121 to elect one of the following disclosed species for prosecution on the merits to which the claims shall be restricted if no generic claim is finally held to be allowable (currently, no claim appears to be generic):
 - Species 1: First Embodiment (Figures 1-12 and [0040]-[0068]; with inter alia a planarized film 104, disposed on planarized region 103, and with LED epi film 110);
 - Species 2: Second Embodiment (Figures 13-15 and [0069]-[0075]: as opposed to previous otherwise similar species, a single epi film is bonded on each metal layer 105 with each LED epi film having a single LED);
 - Species 3: Third Embodiment (Figures 16-17 and [0076]-[0081]; with planarized film 304, and with second surface 110b bonded on metal 305);
 - Species 4: Fourth Embodiment (Figures 19-21 and [0082]-[0091];
 planarized metal film 405 located on a region 403a within the planarized

region 403 adjacent to the integrated circuit and epi layer 410 bonded on 405);

 Species 5: Fifth Embodiment (Figure 23 and [0088]-[0091]; no planarized but instead a raised layer 504 formed on region 503 adjacent to region of integrated circuit, said raised layer having a surface elevated with respect to integrated circuit surface).

The above species are patentably distinct because bonding of epitaxial films, planarization and deliberate elevations in layers have proved substantial and patentable in the semiconductor art.

Applicant is required under 35 U.S.C. 121 to elect a single disclosed species for prosecution on the merits to which the claims shall be restricted if no generic claim is finally held to be allowable. Currently, no claim appears generic.

Applicant is advised that a reply to this requirement must include an identification of the species that is elected consonant with this requirement, and a listing of all claims readable thereon, including any claims subsequently added. An argument that a claim is allowable or that all claims are generic is considered nonresponsive unless accompanied by an election.

Upon the allowance of a generic claim, applicant will be entitled to consideration of claims to additional species which depend from or otherwise require all the limitations of an allowable generic claim as provided by 37 CFR 1.141. If claims are added after the election, applicant must indicate which are readable upon the elected species.

MPEP § 809.02(a).

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Applicant is advised that the reply to this requirement to be complete must include (i) an election of a species or invention to be examined even though the requirement be traversed (37 CFR 1.143) and (ii) identification of the claims encompassing the elected invention.

The election of an invention or species may be made with or without traverse. To reserve a right to petition, the election must be made with traverse. If the reply does not distinctly and specifically point out supposed errors in the restriction requirement, the election shall be treated as an election without traverse.

Should applicant traverse on the ground that the inventions or species are not patentably distinct, applicant should submit evidence or identify such evidence now of record showing the inventions or species to be obvious variants or clearly admit on the record that this is the case. In either instance, if the examiner finds one of the inventions unpatentable over the prior art, the evidence or admission may be used in a rejection under 35 U.S.C.103(a) of the other invention.

Applicant is reminded that upon the cancellation of claims to a non-elected invention, the inventorship must be amended in compliance with 37 CFR 1.48(b) if one or more of the currently named inventors is no longer an inventor of at least one claim remaining in the application. Any amendment of inventorship must be accompanied by a request under 37 CFR 1.48(b) and by the fee required under 37 CFR 1.17(i).

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Johannes P. Mondt whose telephone number is 571-272-1919. The examiner can normally be reached on 8:00 - 18:00.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Jack W. Keith can be reached on 571-272-6878. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

JPM August 21, 2006

Patent Examiner:

Mannes Mondt (Art Unit: 3663)